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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,048	10/24/2005	Hans-Juergen Dobschal	P70853US0	8295
136 IACORSON H	7590 01/23/2007 IOLMAN PLLC	·	EXAMINER	
400 SEVENTH STREET N.W. SUITE 600 WASHINGTON, DC 20004			BOOSALIS, FANI POLYZOS	
			ART UNIT	PAPER NUMBER
	, _ +		2884	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	NTHS	01/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)					
	10/554,048	DOBSCHAL ET AL.					
Office Action Summary	Examiner	Art Unit					
	Faye Boosalis	2884					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	N. mely filed n the mailing date of this c ED (35 U.S.C. § 133).	•				
Status							
1) Responsive to communication(s) filed on 24 O	ctober 2005						
·— · · · · · · · · · · · · · · · · · ·	action is non-final.						
·=	· · · · · · · · · · · · · · · · · · ·						
···	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	. , , ,						
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-3</u> is/are rejected.							
7) Claim(s) is/are objected to.	· · · · · · · · · · · · · · · · · · ·						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	г.						
10)⊠ The drawing(s) filed on 24 October 2005 is/are:	a)⊠ accepted or b) objected	d to by the Examin	er.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is ob	jected to. See 37 CF	FR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Description of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
 Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>5/9/06</u>. 	6) Other:	-асепт Арріісаціоп					

Application/Control Number: 10/554,048 Page 2

Art Unit: 2884

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-3 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1-3, the phrase "especially" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

3. Claims 1-3 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2884

5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by *Staib et al* (US 6,492,644 B1).

Regarding claim 1, Staib discloses an arrangement for inspecting objects, especially masks (i.e. filter grid) (131) in microlithography, that are disposed in a vacuum chamber (101); where converting illuminating radiation (108) emitted from the object (102) into a radiation of a higher wavelength; a sensor (332) provided for recording images (col. 9, lines 25-28). The sensor is disposed outside the vacuum chamber (See Fig. 15 and col. 9, lines 46-63) and an image lens (111c)(120) is arranged as a window in the vacuum chamber (col. 4, lines 58-67 and col. 5, lines 1-4). Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Staib* et al (US 6,492,644 B1) as applied to claim 1 above, and further in view of *Cullman et al* (US 6,016,185 A).

Staib et al discloses all of the limitations of the parent claim 1, as described above, However, Staib et al are silent with regards to image lens being hybrid lens.

Cullman discloses an imaging system for imaging of an object pattern (i.e. microlithography) comprising hybrid lenses (400)(404) having at least one diffractive

Art Unit: 2884

optical element (col. 6, lines 3-12). Therefore, it would have been obvious to a person of ordinary skill in the art to modify Staib et al. to use hybrid lenses for the imaging system so as to increase the diffraction limited resolution.

Regarding claim 3, Cullman discloses an array of lens (i.e. combination of diffractive and refractive optics may be used) channels can be embodied in several ways to meet various repetitive properties (i.e. repetitive patterns) (col. 5, lines 54-61, col. 6, lines 13-18 and 33-43).

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Faye Boosalis whose telephone number is 571-272-2447. The examiner can normally be reached on Monday thru Friday from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/554,048 Page 5

Art Unit: 2884

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

FB

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